



**K. K. Wagh Institute of Engineering Education & Research, Nashik**  
(An Autonomous Institute From A.Y. 2022-23)

	InSem Examination-IISummer2024		
	Exam Seat No.:		
	Academic Year:2023-2024	Semester: II	
	Name of Programme: FYMCA	Pattern:2022	
	Name of Course: Object Oriented Programming	Course Code:MCA222001	
	Max. Marks:30	Duration:1 Hour	

	<p><b>Instructions:</b> Candidates should read carefully the instructions printed on the Question Paper and on the cover page of the Answer Book, which is provided for their use.</p> <ol style="list-style-type: none"><li>1. This question paper contains ONE page(s).</li><li>2. Answer to each new question is to be started on a new page.</li><li>3. Assume suitable data wherever required, but justify it.</li><li>4. Draw the neat labelled diagrams, wherever necessary.</li><li>5. The last columns indicates the Course Outcome and level of Blooms Taxonomy of the Question/sub-question.</li></ol>	
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**Question No. 1 Attempt following Question**

- a) What is Object Oriented Programming Language? List out the advantages of it in details (8) CO1

**OR**

- b) Compare C programming language and C++ programming Language. (8) CO1

- c) Explain the primary usage of standard input and output operator with suitable example. (7) CO1

**OR**

- d) Define Constructor. How is Constructor different from a normal member function? (7) CO1

**Question No. 2 Attempt following Question**

- a) How are access modifiers utilized when implementing inheritance in object-oriented programming? (8) CO3

**OR**

- b) Write a program to implement the single inheritance concept for Employee information. (8) CO3

- c) Provide an example scenario where function overloading would be beneficial, and demonstrate the implementation in a programming language "C++". (7) CO3

**OR**

- d) Demonstrate the use of virtual function used to create pointers to base classes in C++. (7) CO3

**\*\*\*ALL THE BEST\*\*\***